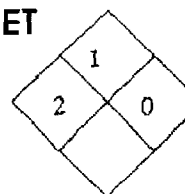




MATERIAL SAFETY DATA SHEET

alphametals.

600 Route 440
Jersey City, New Jersey 07304
Telephone 201-434-6778



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SECTION I. GENERAL INFORMATION

PRODUCT NAME (NUMBER) 51011, 51012, 51015 Paste Flux
CHEMICAL FAMILY Mixture.
D.O.T. HAZARD CLASS Not regulated.

SECTION II. HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT	OSHA PEL	ACGIH TLV
Zinc Chloride Fume	7646-86-7	10-25	1 mg / cum	1mg / cum Steel 2mg / cum

SECTION III. PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg F. (760 mm Hg)	NA	SPECIFIC GRAVITY (H ₂ O=1)	NA
VAPOR PRESSURE (mm Hg at 20 Deg. C.)	NA	% VOLATILE BY WEIGHT EVAPORATION RATE	Negligible NA
VAPOR DENSITY (AIR=1)	NA	pH	NA
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Amber color, solid paste, negligible odor.		

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air) LEL: NE UEL: NE

FLASH POINT Deg F. C.O.C. > 400

EXTINGUISHING MEDIA Dry chemical or carbon dioxide.

SPECIAL FIRE
FIGHTING
PROCEDURES NONE

UNUSUAL FIRE
AND EXPLOSION
HAZARD NONE

NA - NOT APPLICABLE

NE - NOT ESTABLISHED

NL - NOT LISTED

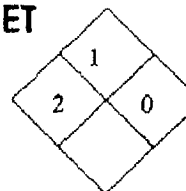
UN - UNKNOWN



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SECTION V.(A) HEALTH HAZARD DATA

(Symptoms/Effects Of Overexposure)

INHALATION: Irritant to respiratory system when heated.

INGESTION: Chemical burn to digestive system. May be fatal if swallowed.

SKIN: Not classified as a skin absorbent. Contact with skin may cause dermatitis, possible chemical burn.

EYES: May burn eye surfaces.

TOXICITY: See Section X.

LISTED

CARCINOGENS: None.

SECTION V.(B) HEALTH HAZARD DATA

(Emergency and First Aid Procedures)

INHALATION If affected, remove individual to fresh air. If breathing is difficult, administer oxygen.

INGESTION DO NOT INDUCE VOMITING.
If swallowed give 1-2 glasses of water or milk and take patient to hospital immediately.

SKIN CONTACT Wash exposed area with soap and water. Remove contaminated clothing.

EYE CONTACT Flush with large amount of water lifting upper and lower lids occasionally. Get medical attention.

SECTION VI. REACTIVITY DATA

STABILITY CONDITIONS NONE
STABLE: X **UNSTABLE:** TO AVOID

INCOMPATIBILITY Strong oxidizing agents and alkalis.
(Materials to Avoid)

HAZARDOUS DECOMPOSITION PRODUCTS Burning may produce carbon monoxide, carbon dioxide and chloride fume.

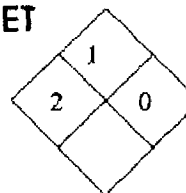
HAZARDOUS POLYMERIZATION CONDITIONS NONE
WILL OCCUR: WILL NOT OCCUR; X TO AVOID



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SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Product is in paste form. Using acid resistant gloves, wipe up and clean with soap and water.

WASTE DISPOSAL

Must be in accordance with Federal, State and Local Laws and Regulations

SECTION VIII. SPECIAL PROTECTION

RESPIRATORY	If threshold limit value is exceeded, when heated, use MSHA/NIOSH approved respirator.
EYEWEAR	Safety glasses in compliance with OSHA regulations are advised. Provide eye bath work near site.
CLOTHING/ GLOVES	Wear resistant gloves such as rubber, neoprene or plastic.
VENTILATION	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLVs.

SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Observe precautions for acidic material. Keep container closed when not in use. Read all container labeling.

OTHER PRECAUTIONS:

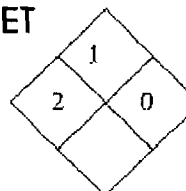
Containers: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**



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SECTION X. ADDITIONAL INFORMATION

TOXICITY:

Zinc chloride is a toxic and severe eye, pulmonary and skin irritant.

Medical conditions aggravated by this product; unknown.

NOTE:

OBSERVE GOOD HYGIENE PRACTICES AS REQUIRED FOR AN ACIDIC MATERIAL.

----- REGULATORY INFORMATION -----

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are listed in the TSCA inventory.

SARA TITLE III (Section 313):

Components present in this product at a level which could require reporting under the statute are:

None

EMERGENCY TELEPHONE NUMBER

CHEMTREC

1-800-424-9300

DAY OR NIGHT

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